

Dr. Peter J. van Hengstum

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A. Professional Qualifications

McMaster University, Canada, Earth Sciences, BSc *summa cum laude*, 2006
McMaster University, Canada, Earth Sciences, MSc 2008
Dalhousie University, Canada, Earth Sciences, PhD 2010
Post-Doctoral Fellow, Woods Hole Oceanographic Institution 2011 to 2013

B. Appointments

Associate Professor, Texas A&M University at Galveston 2019 to Present
Assistant Professor, Texas A&M University at Galveston 2013 to 2019

C. Products (34 total, 17 first author):

(i) Five publications most significantly related to proposal

- van Hengstum**, PJ, Donnelly, Fall, PL, Toomey, MR, Albury, NA, Kakuk, B, 2016, The intertropical convergence zone modulates intense hurricane strikes on the western North Atlantic margin, *Scientific Reports* 6, 21728; doi: 10.1038/srep21728.
- van Hengstum**, PJ, Donnelly, JP, Kingston, AW, Williams, BE, Scott, DB, Reinhardt, EG, Little, SN, Patterson, WP, 2015, Late Holocene low frequency storminess signal in Bermuda linked to higher latitude climatic cooling, *Paleoceanography* 30, 52-76.
- Donnelly, JP, Hawkes, AD, MacDonald, D, Shuman, BN, Toomey, MR, **van Hengstum**, PJ, Woodruff, JD, 2015, Basin-wide and regional forcing of historically unprecedented Atlantic intense hurricane activity over the last 2000 years, *Earth's Future* 3, 49-65.
- van Hengstum**, PJ, Donnelly, JP, Toomey, MR, Albury, NA, Kakuk, B, 2014, Heightened hurricane activity from 1350 to 1650 AD in the northern Bahamas, *Continental Shelf Research* 86, 103-115.
- Toomey, MR, Curry, WB, Donnelly, JP, **van Hengstum**, PJ, 2013, Reconstructing 7000 years of North Atlantic hurricane variability using deep-sea sediment cores from the western Great Bahama Bank, *Paleoceanography* 28 (1), 31-41.

(ii) Five other significant publications

- van Hengstum**, PJ, Cresswell, JN, Iliffe, Milne, GA, Iliffe, TI, 2019, Development of anchialine cave habitats and karst subterranean estuaries since the last ice age, *Scientific Reports*, 9, 11907, doi: 10.1038/s41598-019-48058-8.
- van Hengstum**, PJ, Maale, GE, Donnelly, JP, Onac, B, Sullivan, RM, Winkler, TS, Albury, NA, Tamalavage, A., 2018, Drought in the Northern Bahamas from 3300 to 2500 years ago, *Quaternary Science Reviews*, 186, 169-185.
- van Hengstum**, PJ, Scott, DB, 2012, Sea-level rise and coastal circulation controlled Holocene groundwater development in Bermuda and caused a meteoric lens to collapse 1600 years ago, *Marine Micropaleontology* 90-91, 29-43.
- van Hengstum**, PJ, Scott, DB, Gröcke, DR, Charette, MR, 2011, Sea level controls sedimentation and environments in coastal caves and sinkholes, *Marine Geology* 286, 35-50.
- van Hengstum**, PJ, Reinhardt, EG, Beddows, PA, Gabriel, JJ, 2010, Investigating linkages between Holocene paleoclimate and paleohydrogeology in a Yucatan underwater cave, *Quaternary Science Reviews* 29, 2788-2798.

D. Synergistic Activities

(i) Ad hoc journal and proposal reviewer for the international scientific community (e.g., National Science Foundation, Czech Science Foundation, National Sciences and Engineering Research Council of Canada, Global Planetary Change, Journal of Foraminiferal Research, Geology, Quaternary Science Reviews, Marine Micropaleontology, Biogeosciences, Microbial Ecology, Marine Geology); (ii) community lectures in Bermuda and The Bahamas to public stakeholders outside the scientific community, (iii) Scientific steering committee for the 4th International Symposium for Anchialine Ecosystem, 1-7 October 2018, Lanzarote Island, Spain; (iv) Content Editor for WoRCS (**W**orld Register of Marine **C**ave **S**pecies), part of the global WoRMS initiative (World Register of Marine Species www.marinespecies.org).